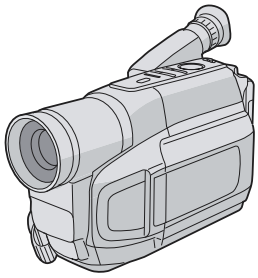
JVC

SERVICE MANUAL

COMPACT VHS CAMCORDER

GR-FXM39EK,GR-FXM39EX,GR-FXM39EY,GR-FXM39EZ, GR-FXM393EX,GR-FXM393EY,GR-FXM393EZ



Regarding service information other than these sections, refer to the service manual No. 86712 (GR-SXM49EX).
Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATION *(The specifications shown pertain specifically to the model GR-SXM49, FXM393, FXM39, SX25, FX15)*

Camcorder

General

Format : S-VHS (GR-SXM49/SX25 only)/ VHS PAL standard
Power source : DC 11 V ⎓ (Using AC Adapter)
DC 6 V ⎓ (Using battery pack)
Power consumption
Viewfinder on : 4.2 W (GR-SXM49/FXM393/FXM39 only)
4.0 W (GR-SX25/FX15 only)
LCD monitor* on : 4.7 W (GR-SXM49/FXM393/FXM39 only)
Video light** : 3.0 W
* Applicable models only.
** GR-SXM49/FXM393/SX25 only.
Signal system : PAL-type
Video recording system
Luminance : FM recording
Colour : Converted sub-carrier direct recording
Conforms to VHS standard
Cassette : S-VHS C / VHS C cassette
Tape speed
SP : 23.39 mm/sec.
LP : 11.70 mm/sec.
Recording time (max.)
SP : 60 minutes
LP : 120 minutes (with EC-60 cassette)
Operating temperature : 0°C to 40°C
Operating humidity : 35% to 80%
Storage temperature : -20°C to 50°C
Weight : Approx. 840 g (GR-SXM49/FXM393/FXM39 only)
Approx. 760 g (GR-SX25 only)
Approx. 750 g (GR-FX15 only)
Dimensions (W x H x D) : 113 mm x 117 mm x 199 mm (GR-SXM49/FXM393/FXM39 only)
108 mm x 117 mm x 199 mm (GR-SX25/FX15 only)
(with the LCD monitor* closed and with the viewfinder fully tilted downward)

* Applicable models only.

Pickup : 1/6" format CCD
Lens : F1.6, f = 2.7 mm to 43.2 mm, 16:1 power zoom lens with auto iris and macro control, filter diameter 40.5 mm
Viewfinder : Electronic viewfinder with 0.5" black/white CRT White balance
White balance adjustment : Auto/Manual adjustment
Speaker (Applicable models only) : Monaural
LCD monitor (Applicable models only) : 2.5" diagonally measured, LCD panel/ TFT active matrix system

Connectors

Video : 1 V (p-p), 75 Ω unbalanced, analogue output (via Video output connector)
Audio : 300 mV (rms), 1 k Ω, analogue output (via Audio output connector)
S-Video (GR-SXM49/SX25 only) : **Y**: 1 V (p-p), 75 Ω, analogue output
C: 0.30 V (p-p), 75 Ω, analogue output

AC Adapter

Power requirement : AC 110 V - 240 V ~, 50 Hz/60 Hz
Output : DC 11 V ⎓, 1 A

Optional Accessories

- **Battery Packs BN-V12U, BN-V20U, BN-V400U**
- **Compact S-VHS (S-VHS C) Cassettes SE-C45/30**
- **Compact VHS (VHS C) Cassettes EC-60/45/30**
- **Active Carrying Bag CB-V7U**
- **Cassette Adapter C-P7U**

Some accessories are not available in some areas. Please consult your nearest JVC dealer for details on accessories and their availability.

GR-FXM39EK,GR-FXM39EX,GR-FXM39EY,GR-FXM39EZ,GR-FXM393EX,GR-FXM393EY,GR-FXM393EZ M3A622,M3A623

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PARTS LIST

1. PACKING AND ACCESSORY ASSEMBLY <M1> 3-1

The following table indicate main different points between models GR-SXM49EX, GR-FXM39EK, GR-FXM39EX, GR-FXM39EY, GR-FXM39EZ, GR-FXM393EX, GR-FXM393EY and GR-FXM393EZ.

ITEM \ MODEL	GR-SXM49EX	GR-FXM39EK	GR-FXM39EX	GR-FXM39EY	GR-FXM39EZ	GR-FXM393EX	GR-FXM393EY	GR-FXM393EZ
TAPE FORMAT	S-VHS-C	VHS-C	←	←	←	←	←	←
S CABLE	Used	Not Used	←	←	←	←	←	←
S OUTPUT	Used	Not Used	←	←	←	←	←	←
DC LIGHT	Used	Not Used	←	←	←	Used	←	←
BODY COLOR	SILVER	←	←	←	←	MOLD BLACK	←	←

The following table indicate different parts number between models GR-SXM49EX,GR-FXM39EK,GR-FXM39EX,GR-FXM39EY, GR-FXM39EZ,GR-FXM393EX,GR-FXM393EY and GR-FXM393EZ.

PACKING AND ACCESSORY ASSEMBLY <M1>

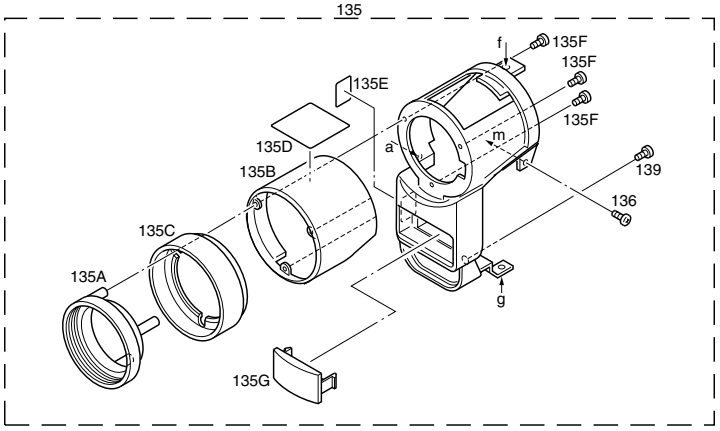
⚠ REF. NO.	ITEM \ MODEL	GR-SXM49EX	GR-FXM39EK	GR-FXM39EX	GR-FXM39EY	GR-FXM39EZ	GR-FXM393EX	GR-FXM393EY	GR-FXM393EZ
1	PACKING CASE	LY33071-001B	LY33071-003B	←	←	←	←	←	←
4	POLY BAG	QPA02003506	QPA02003506P	QPA02003506	←	←	←	←	←
⚠ 5	INST BOOK (ENGLISH)	—	LYT1061-001B	—	—	—	—	—	—
⚠ 5	INST BOOK (GERMAN)	LYT1060-002C	—	LYT1060-002C	←	—	LYT1060-002C	←	—
⚠ 5	INST BOOK (FRENCH)	LYT1060-003C	—	LYT1060-003C	—	—	LYT1060-003C	—	—
⚠ 5	INST BOOK (DUTCH)	LYT1060-004C	—	LYT1060-004C	—	—	LYT1060-004C	—	—
⚠ 5	INST BOOK (SPANISH)	LYT1060-005C	—	LYT1060-005C	—	—	LYT1060-005C	—	—
⚠ 5	INST BOOK (ITALIAN)	LYT1060-006C	—	LYT1060-006C	—	—	LYT1060-006C	—	—
⚠ 5	INST BOOK (DANISH)	—	—	—	LYT1060-007B	—	—	LYT1060-007B	—
⚠ 5	INST BOOK (FINNISH)	—	—	—	LYT1060-008B	—	—	LYT1060-008B	—
⚠ 5	INST BOOK (SWEDISH)	—	—	—	LYT1060-009B	—	—	LYT1060-009B	—
⚠ 5	INST BOOK (NORWEGIAN)	—	—	—	LYT1060-010B	—	—	LYT1060-010B	—
⚠ 5	INST BOOK (RUSSIAN)	—	—	—	—	LYT1060-011B	—	—	LYT1060-011B
⚠ 5	INST BOOK (CZECH)	—	—	—	—	LYT1060-012B	—	—	LYT1060-012B
⚠ 5	INST BOOK (POLISH)	—	—	—	—	LYT1060-013B	—	—	LYT1060-013B
⚠ 5	INST BOOK (HUNGARIAN)	—	—	—	—	LYT1060-014B	—	—	LYT1060-014B
6	Q.CARD(JUK)	—	LYT0194-001B	—	—	—	—	—	—
7	GUARANTY CARD	—	BT-54008-4	—	—	—	—	—	—
8	WARRANTY CARD	BT-54013-5	—	BT-54013-5	←	←	←	←	←
9	POLY BAG	QPA02003506	QPA02003506P	QPA02003506	←	←	←	←	←
⚠ 14	AC ADAPTER	LY20955-001C	←	LY20956-001B	←	←	←	←	←
⚠ 14	AC ADAPTER	LY20956-001B	←	—	—	—	—	—	—
16	S CABLE	QAM0004-003	—	—	—	—	—	—	—
17	POWER CORD	QMPL120-190-JR	QMPP110-190-JR	QMPL120-190-JR	←	←	←	←	←

Notes : Mark ← is same as left.
Mark — is not used.

FINAL ASSEMBLY <M2>

⚠ REF. NO.	ITEM / MODEL	GR-SXM49EX	GR-FXM39EK	GR-FXM39EX	GR-FXM39EY	GR-FXM39EZ	GR-FXM393EX	GR-FXM393EY	GR-FXM393EZ
101	C. COVER(M)ASSY	LY20927-002C	LY20927-001C	LY20927-002C	←	←	LY20927-003C	←	←
101F	STICKER(C)	LY44007-001A	—	LY44007-001A	←	←	←	←	←
103	COV.(UPPER/M)ASSY	LY33068-001C	←	←	←	←	LY33068-002B	←	←
121	LOWER CASE ASSY	LY20925-001D	LY20925-005E	←	←	←	←	←	←
⚠ 135	F.COVER ASSY	LY20926-001C	LY20926-003D	←	←	←	LY20926-012B	←	←
135B	RING	LY32949-001A	←	←	←	←	LY32949-007A	←	←
135D	STICKER(A)	LY43983-001A	LY43983-002A	←	←	←	←	←	←
⚠ 135E	CAUTION LABEL	LY44141-001A	—	—	—	—	LY44141-001A	←	←
135G	COVER(LIGHT)	—	LY32965-001A	←	←	←	—	—	—
137	DC LIGHT	LY33067-001A	—	—	—	—	LY33067-001A	←	←
138	MIC	LY32981-001A	←	←	←	←	LY32981-002A	←	←
157	TOP OPE UNIT	LY10392-001C	LY10392-002D	←	←	←	LY10392-003D	←	←

As for the difference in a “FINAL ASSEMBLY <M2>” drawing, 135G is added.



MECHANISM ASSEMBLY <M3>

⚠ REF. NO.	ITEM / MODEL	GR-SXM49EX	GR-FXM39EK	GR-FXM39EX	GR-FXM39EY	GR-FXM39EZ	GR-FXM393EX	GR-FXM393EY	GR-FXM393EZ
400	MECHA(B) ASSY	YMA0040A-E	YMA0042A-E	←	←	←	←	←	←
406	CASSETTE GUIDE ASSY(RIGHT)	YQ44339A-7	—	—	—	—	—	—	—
406A	SW.LEVER(RIGHT)	YQ32162-1-3	—	—	—	—	—	—	—
406B	TORSION SPRING	YQ44340-1-4	—	—	—	—	—	—	—
407	SCREW	LY42819-001A	—	—	—	—	—	—	—
466	ROTARY ENCODER	QSW0888-002	QSW0888-001	←	←	←	←	←	←

MONITOR ASSEMBLY <M5>

⚠ REF. NO.	ITEM / MODEL	GR-SXM49EX	GR-FXM39EK	GR-FXM39EX	GR-FXM39EY	GR-FXM39EZ	GR-FXM393EX	GR-FXM393EY	GR-FXM393EZ
⚠ 500	MONITOR ASSY	LY20947-001A	LY20947-005A	←	←	←	LY20947-002A	←	←
⚠ 501	M.COVER ASSY	LY33066-001A	LY33066-005A	←	←	←	LY33066-002A	←	←
501A	STICKER(B)	LY43982-001A	LY43982-005A	←	←	←	LY43982-004A	←	←
503	MON.HINGE ASSY	LY33005-001B	LY33005-001C	←	←	←	LY33005-002C	←	←

MAIN BOARD ASSEMBLY <01>

⚠ REF. NO.	ITEM / MODEL	GR-SXM49EX	GR-FXM39EK	GR-FXM39EX	GR-FXM39EY	GR-FXM39EZ	GR-FXM393EX	GR-FXM393EY	GR-FXM393EZ
PW1	MAIN BOARD ASSY	YB10400EA1-02	YB10400EH1-03	←	←	←	YB10400EC1-03	←	←
IC4002	IC(DIGITAL)	MSM548331TA	—	—	—	—	—	—	—
IC4701	IC	—	MM1512XN-X	←	←	←	←	←	←
IC4702	IC	BA7665FS-X	—	—	—	—	—	—	—
Q3505	DIGI TRANSISTOR	DTC144EE-X	—	—	—	—	—	—	—
Q4001	DIGI TRANSISTOR	DTC144EE-X	—	—	—	—	—	—	—
Q6306	MOS FET	2SK3577-X	—	—	—	—	2SK3577-X	←	←
D4001	SI DIODE	DAN222-X	—	—	—	—	—	—	—
C4024	C CAPACITOR	NCF31EZ-104X	—	—	—	—	—	—	—
C4025	C CAPACITOR	NCB31CK-104X	—	—	—	—	—	—	—
C4044	C CAPACITOR	NCB30JK-105X	—	—	—	—	—	—	—
C4713	E CAPACITOR	NEA70JM-226X	—	—	—	—	—	—	—
C4714	E CAPACITOR	NEA70GM-107X	—	—	—	—	—	—	—
C4715	C CAPACITOR	NCB31EK-103X	—	—	—	—	—	—	—
C6307	E CAPACITOR	NEA71CM-106X	—	—	—	—	NEA71CM-106X	←	←
R4013	MG RESISTOR	NRSA63J-102X	—	—	—	—	—	—	—
R4014	MG RESISTOR	NRSA63J-103X	—	—	—	—	—	—	—
R4036	MG RESISTOR	NRSA63J-101X	—	—	—	—	—	—	—
R4712	MG RESISTOR	NRSA63D-680X	—	—	—	—	—	—	—
R4713	MG RESISTOR	NRSA63D-680X	—	—	—	—	—	—	—
R6306	MG RESISTOR	NRSA63J-0R0X	—	—	—	—	NRSA63J-0R0X	←	←
R6307	MG RESISTOR	NRSA63J-104X	—	—	—	—	NRSA63J-104X	←	←
R6314	MG RESISTOR	NRS12BK-R47W	—	—	—	—	NRS12BK-R47W	←	←
CN6	CONNECTOR	QGA1201C2-02X	—	—	—	—	QGA1201C2-02X	←	←
J505	S JACK	QND0068-001	—	—	—	—	—	—	—

Notes : Mark ← is same as left.
Mark — is not used.

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